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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,045	03/11/2004	Jin-Guang Teng	007198-587	4689
21839 7590 01/04/2007 BUCHANAN, INGERSOLL & ROONEY PC			EXAMINER	
POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404		* (CHAPMAN, JEANETTE E	
		•	ART UNIT	PAPER NUMBER
			3635	
SHORTENED STATUTORY PEI	RIOD OF RESPONSE	MAIL DATE	DELIVERY MODE .	
3 MONTHS		01/04/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office Action Commons	10/797,045	TENG, JIN-GUANG				
Office Action Summary	Examiner	Art Unit				
·	Chapman E. Jeanette	3635				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06 Oc	ctober 2006.					
	action is non-final.					
•						
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1,3-9 and 11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3-9 and 11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.	·				
Application Papers		,				
_	_					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
· · · · · · · · · · · · · · · · · · ·						
Applicant may not request that any objection to the		•				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
		• •				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P	atent Application (PTO-152)				

Application/Control Number: 10/797,045

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Quigley (5324248) in view of Mirmiran et al (5599599).

Quigley discloses a double skin tubular construction (figures 2-3 comprising;

- a fiber reinforced polymer outer tube 36/34; the fibre reinforced polymer includes a majority of fibers oriented circumferentially around the tube
- the fibre reinforced tube is constructed from a plurality of layers of fibre reinforced polymer
- 3. an inner tube 48 made from a steel material
- 4. a filler mater 34/44b provided between the outer tube 36 and the inner tube 48
- 5. the providing and inserting steps have obviously been performed by Quigley as they are shown
- 6. the fibber reinforced polymer acts as a construction form during a curing stage of the filler as much as applicants polymer performs with the same limitations; there are no real or positively recited method steps in claim 9.

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The material for the filler and the method in which the fibre reinforce polymer has been made has been considered a matter of choice. One of ordinary skill in the art would have appreciated all of the known types of fillers and would have selected any one capable of filling the intended use, function and purpose of the invention. Moreover, the claims are not directed to a method but article the fibre reinforced polymer layers are shown by Quigley. Nevertheless, Mirmiram discloses an aggregate material disposed between inner and outer tube layers. It would have been obvious to one of ordinary skill in the art to modify Quigley to include the bound aggregate material of cement in order to protect any steel or metal bars from the effects of corrosion. One of ordinary skill in the art would have appreciated all the methods to construct them and would have selected any one method commensurate with the intended use and financial budget.

Response to Arguments

Applicant's arguments with respect to claims 1, 3-9 and 11 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chapman E. Jeanette whose telephone number is 571-272-6841. The examiner can normally be reached on Mon.-thursday, 8:30-6:00, every fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NAOKO SLACK can be reached on 571-272-6848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

JEANETTE CHAPMAN

PRIMARY PATENT EXAMINER

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